

Project Title	Funding	Strategic Plan Objective	Institution
Cerebellum and autism: Neural mechanisms and modulation of predictive processing	\$402,769	Q2.Other	AMERICAN UNIVERSITY
Hippocampal mechanisms of social learning in animal models of autism	\$62,500	Q2.Other	Baylor College of Medicine
Multisensory processing in autism	\$0	Q2.Other	Baylor College of Medicine
Mechanical characterization of brain tissue and individual neurons in Autism Spectrum Disorders	\$0	Q2.Other	Boston Children's Hospital
Disrupted Homeostatic Synaptic Plasticity in Autism Spectrum Disorders.	\$125,000	Q2.Other	Brandeis University
Linking genetic mosaicism, neural circuit abnormalities and behavior	\$0	Q2.S.D	Brown University
Na+-H+ Exchanger Mechanisms in Autism Pathophysiology and Treatment	\$29,475	Q2.Other	Brown University
Direct Recordings from the Brain in Autism	\$60,000	Q2.S.E	California Institute of Technology
Investigating Autism with Direct Intracranial Recordings	\$35,000	Q2.S.E	California Institute of Technology
Thalamic activity and structure and surface neural oscillations in autism	\$207,016	Q2.Other	Children's Hospital of Philadelphia
Electrophysiological Signatures of Language Impairment in Autism Spectrum Disord	\$312,853	Q2.Other	Children's Hospital of Philadelphia
Developmental in Axons underlie Neuropsychiatric Illness	\$30,000	Q2.Other	Children's Research Institute (CRI)
Cell adhesion molecules in autism: a whole-brain study of genetic mouse models	\$521,650	Q2.Other	COLD SPRING HARBOR LABORATORY
Excitatory/Inhibitory Imbalance in Autism and Early-course Schizophrenia	\$14,931	Q2.L.B	Connecticut Mental Health Center Yale University
Mapping functional neural circuits that mediate social behaviors in autism	\$62,500	Q2.Other	Duke University
Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder	\$309,592	Q2.Other	Duke University
The role of Shank3 in neocortex versus striatum and the pathophysiology of autism	\$0	Q2.S.D	Duke University
Engagement of Social Cognitive Networks during Game Play in Autism	\$29,933	Q2.Other	Duke University
Ontogeny and neural basis of social visual engagement in monkeys	\$312,542	Q2.Other	Emory University
The role of UBE3A in autism: Is there a critical window for social development?	\$54,450	Q2.S.D	Erasmus University Medical Center
Neuregulin 1 (NRG1) in autistic children	\$0	Q2.S.A	Hartwick College
Neural Correlates of Imitation in Children with Autism and their Unaffected Siblings	\$0	Q2.L.B	Harvard University
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	\$44,400	Q2.Other	Hospital Riviere-des-Praires, University of Montreal, Canada

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EEG-Based Assessment of Functional Connectivity in Autism	\$175,176	Q2.Other	HUGO W. MOSER RES INST KENNEDY KRIEGER
Alterations to corticothalamic circuitry in a mouse model of autism	\$74,000	Q2.Other	LOUISIANA STATE UNIV A&M COL BATON ROUGE
Local functional connectivity in the brains of people with autism	\$49,961	Q2.L.B	Massachusetts General Hospital
Neuroimaging genetics to study social cognitive deficits in ASD and schizophrenia	\$118,500	Q2.S.G	Massachusetts General Hospital
CRISPR/Cas9-Based Functional Characterization of ANK2 Mutations in ASD Neural Circuitry	\$84,431	Q2.S.G	Massachusetts General Hospital
Functional connectivity substrates of social and non-social deficits in ASD	\$701,636	Q2.Other	Massachusetts General Hospital
Probing the neural basis of social behavior in mice	\$0	Q2.S.D	Massachusetts Institute of Technology
Brain Bases of Language Deficits in SLI and ASD	\$616,032	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Characterizing and Manipulating the Social Reward Dysfunction in a Novel Mouse Model for Autism	\$0	Q2.Other	Massachusetts Institute of Technology
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$0	Q2.S.D	Massachusetts Institute of Technology
FUNCTIONAL ANATOMY OF FACE PROCESSING IN THE PRIMATE BRAIN	\$1,695,557	Q2.Other	National Institutes of Health
FUNCTIONAL AND STRUCTURAL OPTICAL BRAIN IMAGING	\$682,022	Q2.Other	National Institutes of Health
The Cognitive Neuroscience of Autism Spectrum Disorders	\$1,125,989	Q2.Other	National Institutes of Health
Imaging markers of brain malformations in people with 16p11.2 alterations	\$0	Q2.S.G	New York University
Neural and cognitive discoordination in autism-related mouse models	\$280,480	Q2.S.D	New York University
Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism	\$62,497	Q2.S.D	New York University
THE COGNITIVE SEARCHLIGHT: TRN CIRCUIT DISSECTION IN HEALTH AND DISEASE	\$528,288	Q2.Other	New York University
Validity and Reliability of New Standard for Resting fMRI Data	\$84,750	Q2.Other	New York University
Intrinsic Brain Architecture of Young Children with Autism While Awake and Asleep	\$211,875	Q2.Other	New York University
Neuronal Correlates of Autistic Traits in ADHD and Autism	\$870,670	Q2.Other	New York University
Connectivity of the Posterior Cerebellum	\$39,720	Q2.Other	PRINCETON UNIVERSITY
Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior	\$250,546	Q2.Other	PRINCETON UNIVERSITY

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Imaging adaptive cerebellar processing at cellular resolution in awake mice	\$428,215	Q2.Other	PRINCETON UNIVERSITY
The Autistic Brain Over 45: The Anatomic, Functional, and Cognitive Phenotype	\$771,520	Q2.L.A	SAN DIEGO STATE UNIVERSITY
Integrity and Dynamic Processing Efficiency of Networks in ASD	\$641,036	Q2.Other	SAN DIEGO STATE UNIVERSITY
fMRI and EEG approaches to the resting state in ASD	\$190,411	Q2.Other	SAN DIEGO STATE UNIVERSITY
Undergraduate Research Award	\$0	Q2.L.B	SAN DIEGO STATE UNIVERSITY
Social reward in autism: Electrophysiological, behavioral, and clinical correlates	\$0	Q2.Other	SEATTLE CHILDREN'S HOSPITAL
Decoding Affective Prosody and Communication Circuits in Autism	\$281,028	Q2.L.B	Stanford University
CLARITY: circuit-dynamics and connectivity of autism-related behavior	\$246,539	Q2.Other	Stanford University
Investigating the role of Tsc1 in neocortical circuit assembly	\$52,406	Q2.S.D	STANFORD UNIVERSITY
Longitudinal MRI Study of Brain Development in Fragile X	\$769,619	Q2.S.D	STANFORD UNIVERSITY
Brain Systems Supporting Learning and Memory in Children with Autism	\$170,779	Q2.Other	STANFORD UNIVERSITY
Brain Systems Underlying Episodic Memory for Social Stimuli in Childhood Autism	\$126,252	Q2.Other	STANFORD UNIVERSITY
Imaging-based real-time feedback to enhance therapeutic intervention in ASD	\$0	Q2.L.B	Stanford University
Social Motivations and Striatal Circuit Development in Children and Adolescents with Autism	\$0	Q2.L.B	Stanford University
Parameterizing Neural Habituation in ASD with Sensory Overresponsivity	\$62,479	Q2.Other	The Regents of the University of California, Los Angeles
Neural basis underlying autistic behaviors	\$240,000	Q2.Other	The Scripps Research Institute
Rapid screening for cortical circuit dysfunction in autism-related mouse models	\$0	Q2.S.D	University of California, Berkeley
Alterations of the human brain structural connectome in preschool aged children with ASD	\$30,000	Q2.Other	University of California, Davis
Linking circuit dynamics and behavior in a rat model of autism	\$0	Q2.S.D	University of California, San Francisco
Prefrontal corticothalamic circuits in autism	\$178,646	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2	\$30,000	Q2.Other	University of California, San Francisco
Using fMRI to understand the Neural Mechanisms of Pivotal Response Treatment	\$0	Q2.L.B	University of California, Santa Barbara

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Development of a connectomic functional brain imaging endophenotype of autism	\$13,664	Q2.Other	University of Cambridge
Social interaction and reward in autism: Possible role for ventral tegmental area	\$0	Q2.Other	University of Geneva
Development of auditory circuits in mouse models of autism	\$54,194	Q2.Other	University of Maryland
BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS	\$0	Q2.Other	University of Maryland
Cognitive and Neural Flexibility in Autism	\$480,296	Q2.Other	University of Miami
Genome-wide Identification of Variants Affecting Early Human Brain Development	\$370,249	Q2.S.G	University of North Carolina
Cell-type and circuit-specific functional deficits in cortex from gene disruptions linked to autism	\$30,000	Q2.S.D	University of North Carolina
Neural Synchrony and Plasticity in Children with Autism	\$56,100	Q2.Other	University of North Carolina
A Quantitative Study of Pyramidal Cells and Interneurons in the Cerebral Cortex	\$3,000	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
The neurobiological basis of heterogeneous social and motor deficits in ASD	\$464,220	Q2.Other	University of Southern California
Multiscale Genetic Connectivity of Primate Social Circuits	\$647,114	Q2.Other	UNIVERSITY OF UTAH
Brain Network Development in Normal and Autistic Children	\$187,164	Q2.Other	UNIVERSITY OF UTAH
Neural mechanisms underlying autism behaviors in SCN1A mutant mice	\$100,000	Q2.S.D	University of Washington
Inhibitory dysfunction in autism	\$647,425	Q2.Other	University of Washington
Undergraduate Research Award	\$0	Q2.S.B	University of Washington
Bidirectional Tyrosine Kinase Signaling	\$523,695	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
IMAGING BRAIN FUNCTION IN CHILDREN WITH AUTISM SPECTRUM DISORDERS WITH DIFFUSE OPTICAL TOMOGRAPHY	\$141,211	Q2.Other	Washington University in St. Louis
Local connectivity in altered excitation/inhibition balance states	\$0	Q2.Other	Weizmann Institute of Science
Disrupted Network Activity in Neonatal Cortex of Mouse Models of Autism	\$125,000	Q2.S.B	Yale University
Multimodal Developmental Neurogenetics of Females with ASD	\$2,703,126	Q2.S.B	Yale University
Neural markers of shared gaze during simulated social interactions in ASD	\$416,250	Q2.Other	Yale University

